

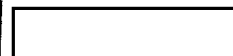
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PHOTOGRAPHIC INTERPRETATION REPORT



**CHRONOLOGICAL
DEVELOPMENT OF MOSKVA
GUIDED MISSILE PLANT
TUSHINO 82
MOSKVA, USSR**



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NOVEMBER 1967

COPY **116**

8 PAGES

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Declass Review by NIMA / DoD

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CHRONOLOGICAL DEVELOPMENT OF MOSKVA GUIDED MISSILE PLANT TUSHINO 82, MOSKVA, USSR

INTRODUCTION

This report is a study of the chronological development of the Moskva Guided Missile Plant Tushino 82 [] located 8 nautical miles (nm) northwest of the center of Moskva at 55-50-21N 037-27-15E and across the Skhodnya Canal from Moskva Aircraft Engine Plant Tushino 500 (Figure 1).

The installation is serviced by all-weather roads on 3 sides, a rail spur of the Moskva-Istra main rail line, and docks on the Khimkinskoye Vodokhranilishche (Reservoir). Moscow/Tushino Airfield is located only 1.5 nm south-southwest of the plant. A World War II taxiway between Moscow/Khimki Airfield and

Plant 82 had been removed by [] when the first usable [] photograph of the installation was obtained. The plant occupies an area of approximately 130 acres and includes approximately 1.8 million square feet of roof cover. In addition to a very large final assembly/subassembly building, it includes 3 other assembly-type buildings and another nearing completion. It also includes a large number of shops and utility buildings as well as an unusually large number of administration/engineering buildings.

Plant 82 produced the YAK series aircraft during World War II. During the evacuation to the east, equipment and personnel from the plant were moved to Omsk. In the years im-

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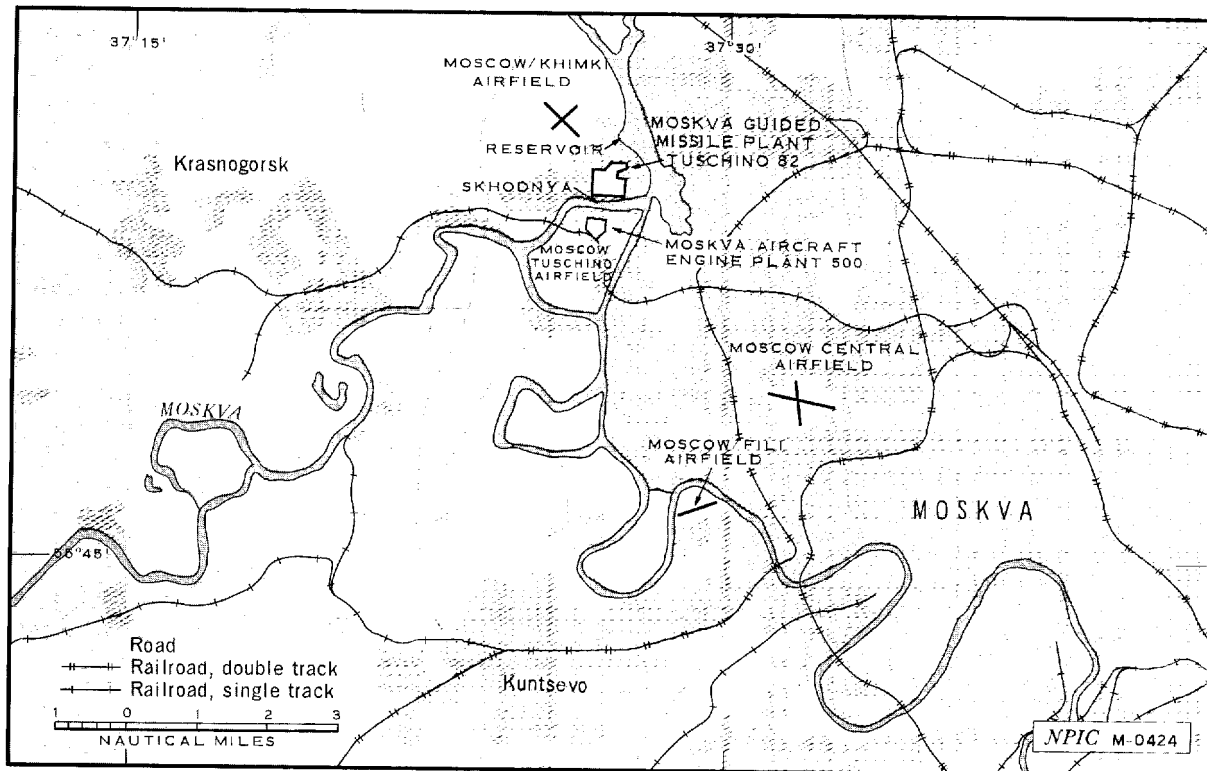


FIGURE 1. LOCATION MAP.

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mediately following the war the plant is reported to have been involved in the production of consumer goods, helicopters, and trolley buses. As early as [] information indicated that it was involved in surface-to-air missile production. Since that time the plant has been reported to be associated with SA-1, SA-2, and SA-3 missile production. 1/

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Photographic coverage of the installation includes good German photography of 1942 (Figure 4). The first usable [] photography was not obtained until []

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[] During the period [] photography of only poor-to-fair interpretability of the installation was available. Recent

[] provided excellent stereo photography of the installation.

HIGHLIGHTS OF CHRONOLOGICAL DEVELOPMENT

Recent large-scale photography of Plant 82 is shown in Figure 2. The layout of the plant is shown in Figure 3; all item numbers are keyed to Figure 3 and Table 1.

1942

The German photography of 1942 revealed that Plant 82 had approximately 800,000 square feet of roof cover consisting of a large fabrication, subassembly, and final assembly building; a subassembly building; and administration and support buildings. The plant was not rail served, but a taxiway extended from the plant to the adjacent Moscow/Khimki (flyaway) Airfield. It was further connected by good road with the nearby Moskva Aircraft Engine Plant Tushino 500 (Figure 4).

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[] Analysis of [] photography revealed that the roof cover of the plant had been doubled and that the plant no longer produced completed aircraft (the

taxiway to Moscow/Khimki Airfield had been removed and no new rollout apron or taxiways had been built). The roof cover of the large final assembly/subassembly building (item 36) had been increased 31 per cent, and a large fabrication/assembly section (item 21a) and a final assembly building (item 34a) had been completed. The roof of all but the northern portion of the final assembly building had also been replaced.

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During this period relatively few additional structures of major importance were constructed, but many buildings were enlarged and the plant support functions were increased. Two shipping and receiving buildings were added, an assembly section (item 21b) was completed, a large new shop (item 18) was placed in use, and a number of both administration and utility buildings were completed (items 1-3, 17, 23, 41, 66, and 67). One of the most important buildings constructed during this period was a six-story administration/engineering building located along the southern edge of the plant (item 65).

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Plant 82 was enlarged and modified to only a minor degree during this period. Good quality [] photography revealed that 5,200 square feet of roof cover had been added to a final assembly section (item 36c). A medium-sized shipping/receiving building (item 7) was also completed, and a shop building (item 58) was enlarged.

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Excellent [] photography of Plant 82 thus far this year revealed the completion of a large boilerhouse (item 10b) and 2 probable administration buildings under construction (items 50 and 51); a large assembly building (item 19) of 88,600 square feet was nearing completion. The excellent photography

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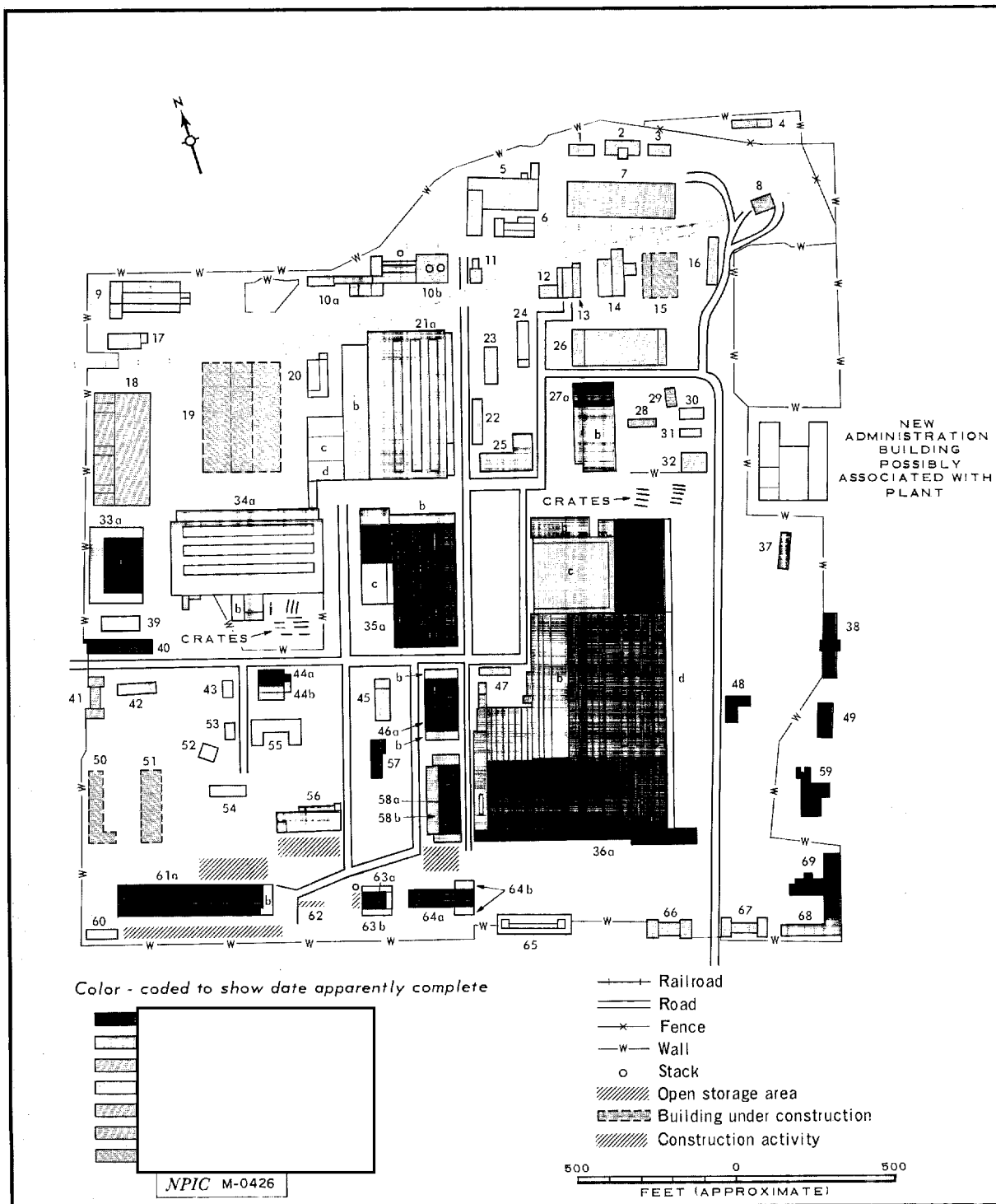


FIGURE 3. LAYOUT OF MOSKVA GUIDED MISSILE PLANT TUSHINO 82.

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Table 1. Probable Functions, Dimensions, and Chronology of Structures at Noros Guided Missile Plant Tushino 82
(Item numbers are keyed to Figure 3)

Item No	Probable Function	Dimensions (ft)			Roof Cover (sq ft)	Date First Observed	Comments	Item No	Probable Function	Dimensions (ft)			Roof Cover (sq ft)	Date First Observed	Comments
		L	W	H						L	W	H			
1	Utility bldg							36	Final assembly/subassembly bldg						
2	Utility bldg							a	Final assembly section						
3	Utility bldg							b	Subassembly section						
4	Utility bldg														
5	Shipping/receiving bldg							c	Final assembly section						
6	Shipping/receiving bldg							d	Final assembly section						
7	Shipping/receiving bldg														
8	Rail car cleaning bldg							37	Utility bldg						
9	Warehouse							38	Admin bldg						
10	Boilerhouse							39	Storage bldg						
a								40	Storage bldg						
b								41	Admin bldg						
11	Utility bldg							42	Storage bldg						
12	Storage bldg							43	Utility bldg						
13	Storage bldg							44	Small shop						
14	Storage bldg							a							
15	U/I structure							15	Storage bldg						
16	Utility bldg							46	Forge/factory						
17	Utility bldg							a	Main section						
18	Shop							b	End section						
19	Assembly bldg, u.c.							47	Utility bldg						
20	Post test facility							48	Admin bldg						
21	Fabrication/assembly bldg							49	Admin bldg						
a	Fabrication/assembly section							50	Prob admin bldg						
b	Assembly section														
c	Shop section							51	Prob admin bldg						
d	Shop section							52	Utility bldg						
22	Utility bldg							53	Utility bldg						
23	Utility bldg							54	Utility bldg						
24	Utility bldg							55	Shop						
25	Utility bldg							56	Woodworking/paint shop						
26	Storage bldg							57	Post-test bldg						
27	Post final checkout bldg							58	Shop						
a								a							
b								b							
28	Utility bldg							59	Fire station						
29	Utility bldg							60	Utility bldg						
30	Utility bldg							61	Warehouse						
31	Utility bldg							a							
32	Utility bldg							b							
33	Shop							62	U/I bldg						
a								63	Shop						
b								a							
34	Final assembly bldg							b	Boiler & shop						
a								64	Shop						
b								a							
35	Fabrication & assembly bldg							b							
a								65	Admin/engineering bldg						
b								66	Admin bldg						
								67	Admin bldg						
								68	Admin bldg						
c	Assembly & post test section							69	Admin bldg						

*Complete when first observed unless

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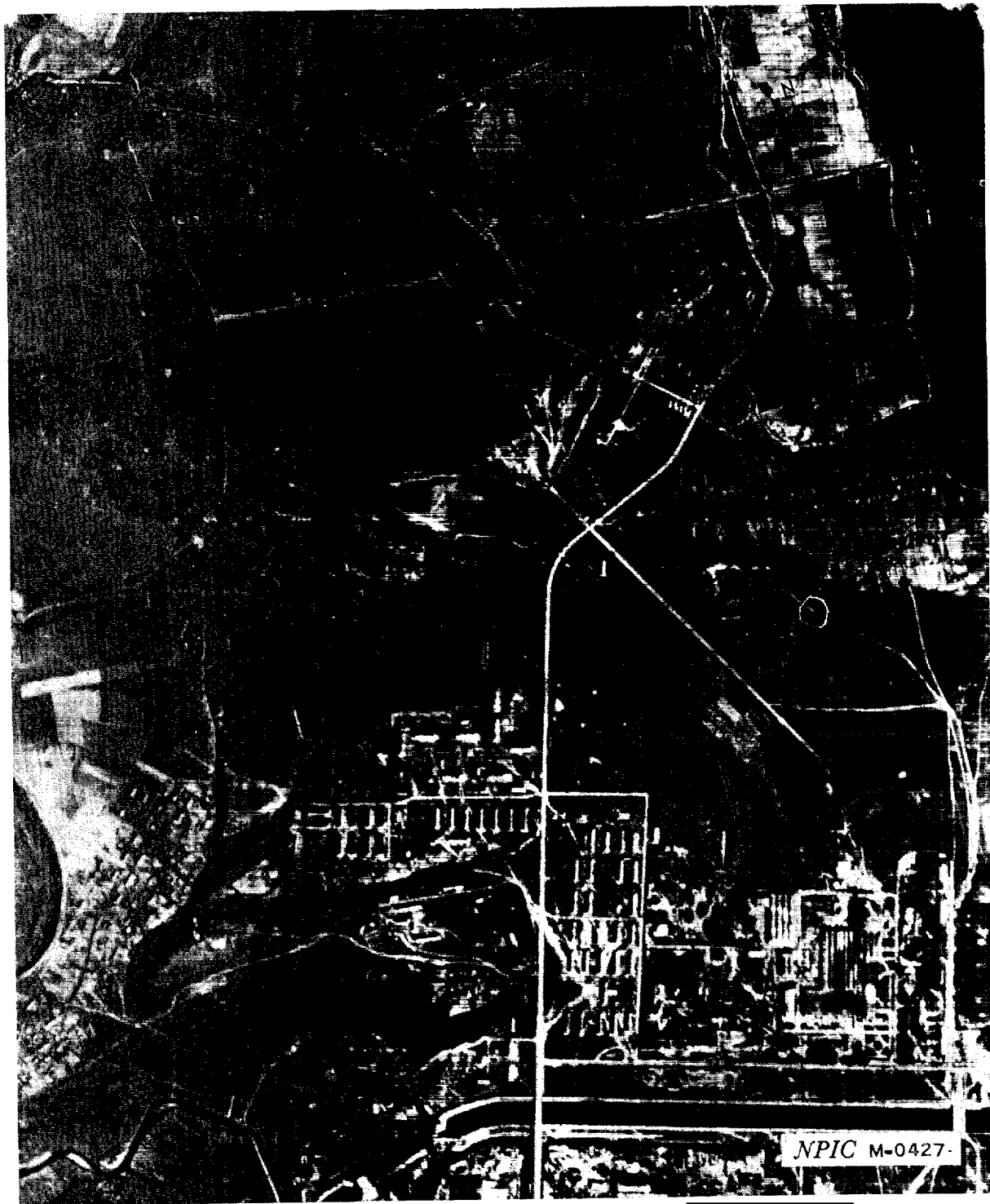


FIGURE 4. MOSKVA GUIDED MISSILE PLANT TUSHINO 82, USSR,

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REFERENCES (Continued)

MAPS OR CHARTS

ACIC. US Air Target Chart, Series 200, Sheet 0167-5

DOCUMENT

25X1A

25X1C

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2. GMAIC, PWG. [redacted] *Supplement, Evaluation of Evidence on Soviet Guided Missile Production*, "Moskva: Guided Missile Plant, Tushino 82," Revision dated Jun 66 (TOP SECRET [redacted])

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REQUIREMENT

CIA. C-DI5-82,973

NPIC PROJECT

11212/66 (partial answer)

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